CLAIMS

1. A compound of the formula

HOCH₂
$$V$$
 B H OH X_2

wherein

V is oxy, methylene, or thio,

 ${\tt X_1}$ and ${\tt X_2}$ are each independently hydrogen or halogen, with the proviso that at least one of ${\tt X_1}$ and ${\tt X_2}$ is halogen, B is a radical of the formula

wherein Y_1 is nitrogen, a CH group, a CCl group, a CBr group or a CNH $_2$ group; Y_2 and Y_3 are each independently nitrogen or a CH group; Y_4 is hydrogen, C_1 - C_4 alkyl, C_1 - C_4

alkoxy or halogen; Y_5 is amino or $C_1\text{-}C_4$ alkoxy; and Z is hydrogen, halogen, or NH_2 ; or a pharmaceutically acceptable salt thereof.

2. A compound of the formula

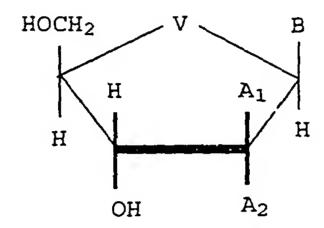
wherein

V is oxy, methylene, or thio, R is hydrogen or C_1 - C_4 alkyl, B is a radical of the formula

wherein Y_1 is nitrogen, a CH group, a CCl group, a CBr group or a CNH₂ group; Y_2 and Y_3 are each independently nitrogen or a CH group; Y_4 is hydrogen, C_1 - C_4 alkyl, C_1 - C_4 alkoxy or halogen; Y_5 is amino or C_1 - C_4 alkoxy; and Z is hydrogen, halogen, or NH₂;

or a pharmaceutically acceptable salt thereof.

3. A compound of the formula



wherein

V is oxy, methylene, or thio,

 A_1 and A_2 are each independently hydrogen or a -C CR group, wherein R is hydrogen or C_1 - C_4 alkyl, with the proviso that where A_1 is hydrogen A_2 is a -C CR group, and where A_1 is a -C CR group A_2 is hydrogen,

B is a radical of the formula

wherein Y_1 is nitrogen, a CH group, a CCl group, a CBr group or a CNH₂ group; Y_2 and Y_3 are each independently nitrogen or a CH group; Y_4 is hydrogen, C_1 - C_4 -alkyl, C_1 - C_4 alkoxy or halogen; Y_5 is amino or C_1 - C_4 alkoxy; and Z is hydrogen, halogen, or NH₂;

or a pharmaceutically acceptable salt thereof.

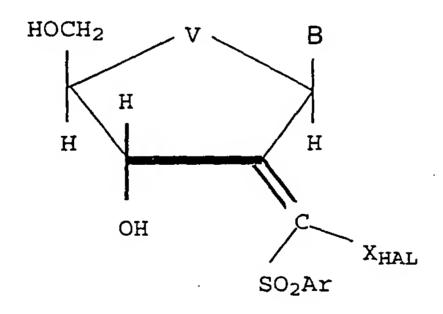
4. A compound of Claim 1 wherein X_1 is fluoro and X_2 is hydrogen.

- 5. A compound of Claim 1 wherein X_1 is hydrogen and X_2 is fluoro.
 - 6. A compound of Claim 2 or 3 wherein R is hydrogen.
 - 7. A compound of Claim 1, 2 or 3 wherein V is oxy.
 - 8. A compound of Claim 1, 2 or 3 wherein Z is hydrogen.
 - 9. A compound of Claim 1, 2 or 3 wherein Y_1 is a CH group.
 - 10. A compound of Claim 1, 2 or 3 wherein Y_2 is nitrogen.
 - 11. A compound of Claim 1, 2 or 3 wherein Y_3 is nitrogen.
 - 12. A compound of Claim 1, 2 or 3 wherein Z is hydrogen.
- 13. A compound of Claim 1, 2 or 3 wherein Y_2 is a CH group.
- 14. A method of treating a patient afflicted with a neoplastic disease state comprising the administration thereto of a therapeutically effective antineoplastic amount of a compound of Claim 1, 2 or 3.
- 15. A method of treating a patient afflicted with a viral infection comprising the administration thereto of a therapeutically effective antiviral amount of a compound of Claim 1, 2 or 3.
- 16. A method of controlling the growth of a neoplasm in a patient afflicted with a neoplastic disease state comprising administration thereto of a therapeutically effective antineoplastic amount of a compound of Claim 1, 2 or 3.

- 17. A method of controlling a viral infection in a patient afflicted therewith comprising administration thereto of a therapeutically effective antiviral amount of a compound of Claim 1, 2 or 3.
- 18. A pharmaceutical composition comprising a therapeutically effective amount of a compound of Claim 1, 2 or 3 in admixture or otherwise in association with one or more pharmaceutically acceptable carriers or excipients.
- 19. A compound of Claim 1 wherein the compound is 2'-deoxy-2'-difluoromethylidene-cytidine.
- 20. The compound of Claim 1 wherein the compound is 2'-deoxy-2'-difluoromethylidene-uridine.
- 21. The compound of Claim 1 wherein the compound is 2'-deoxy-2'-difluoromethylidene-guanosine.
- 22. A compound of Claim 1 wherein the compound is (E)-2'-deoxy-2'-fluoromethylidene-cytidine.
- 23. A compound of Claim 1 wherein the compound is (Z)-2'-deoxy-2'-fluoromethylidene-cytidine.
- 24. A compound of Claim 1 wherein the compound is (Z) or (E)-2'-deoxy-2'-fluoromethylidene-uridine.
- 25. A compound of Claim 1 wherein the compound is (Z) or (E) 2'-deoxy-2'-fluoromethylidene-guanosine.
- 26. The compound of Claim 2 wherein the compound is 2'-deoxy-2'-ethenylidene-cytidine.

- 27. The compound of Claim 2 wherein the compound is 2'-deoxy-2'-ethenylidene-uridine.
- 28. A compound of Claim 2 wherein the compound is 2'-deoxy-2'-ethenylidene-guanosine.
- 29. A compound of Claim 3 wherein the compound is 2'-deoxy-2'(R or S)-ethynyl-cytidine.
- 30. A compound of Claim 3 wherein the compound is 2'-deoxy-2'(R or S)-ethynyl-uridine.
- 31. A compound of Claim 3 wherein the compound is 2'-deoxy-2'(R or S)-ethynyl-guanosine.

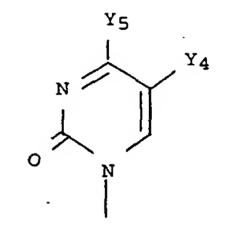
32. A compound of the formula



wherein

V is oxy, methylene, or thio, $X_{\rm HAL}$ is halogen, Ar is a C_6 - C_{12} aryl group, B is a radical of the formula

$$Y_1$$
 Y_2
 Y_3
 Z
 Y_3



wherein Y_1 is nitrogen, a CH group, a CCl group, a CBr group or a CNH₂ group; Y_2 and Y_3 are each independently nitrogen or a CH group; Y_4 is hydrogen, C_1 - C_4 alkyl, C_1 - C_4 alkoxy or halogen; Y_5 is amino or C_1 - C_4 alkoxy; and Z is hydrogen, halogen, or NH₂.

- 33. A compound of Claim 32 wherein Ar is phenyl.
- 34. A compound of Claim 33 wherein X_{HAL} is fluorine.
- 35. A composition comprising a compound of Claim 1, 2, 3, or 32 in admixture or otherwise in association with an inert carrier.

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